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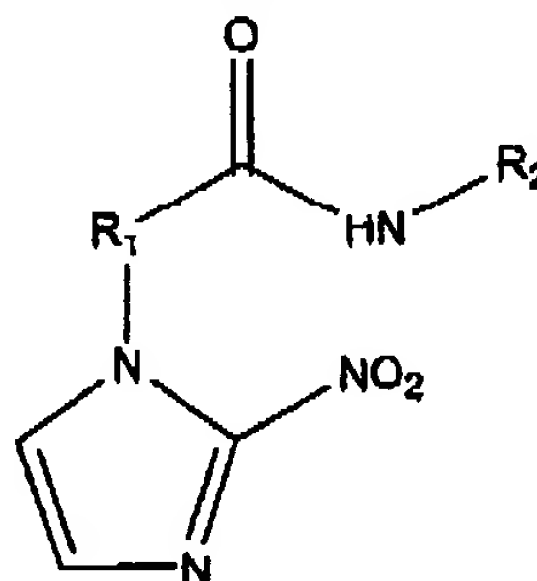
PATENT
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 PROCEDURE PURSUANT TO
 37 CFR § 1.116

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-19. (Cancelled)

20. (Currently Amended) A method for detecting tissue hypoxia in a mammal comprising: administering to the mammal a compound having the formula:



wherein R_1 is CH_2 ; and R_2 is an alkyl group ~~has~~ having the formula CH_2CX_2Y ~~$CH_2CX_2CHX_2$~~ , wherein X is halogen or hydrogen, Y is CHF_2 or CH_2F , wherein and at least 1 carbon atom of said alkyl group is bound with at least one ^{18}F ; and imaging the portion of the mammal containing the tissue.

21. (Previously Presented) The method of claim 20 wherein the detection technique is PET.

22. (Previously Presented) The method of claim 20 wherein R_2 is $CH_2CH_2CH_2^{18}F$ and the detection technique is PET.

23-26. (Cancelled)

27. (Previously Presented) The method of claim 20 wherein the halogen is fluorine.

28. (Previously Presented) The method of claim 20 wherein R_2 is $CH_2CF_2CH_2^{18}F$.

29. (Previously Presented) The method of claim 20 wherein R_2 is $CH_2CF_2CH^{18}F_2$.

30. (Previously Presented) The method of claim 20 wherein R_2 is $CH_2CHFCH_2^{18}F$.

31. (Previously Presented) The method of claim 20 wherein R_2 is $CH_2CHFCH^{18}F_2$.

32. (Previously Presented) The method of claim 20 wherein R_2 is $CH_2CH_2CH^{18}F_2$.